

### ABSTRACT OF THE DISCLOSURE

An antenna element is placed in a first mold for molding a first resin member including a plurality of protrusions, formed on an outer peripheral face of the first resin member and arranged with a fixed interval relative to a circumferential direction of the first resin member, and a tip end portion, having a cross sectional shape in which projected portions are arranged with a fixed interval relative to the circumferential direction of the first resin member. Insulating resin is injected into the first mold to form the first resin member.

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10 The first resin member is placed in a second mold such that the protrusions are brought into contact with an inner face of the second mold. Insulating resin is injected into the second mold from a gate confronting the tip end portion of the first resin member, to form a second resin member coated on the first resin member.